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turbine is thus inherently fluctuating and non-dispatchable. (The most one can do is to limit production below what the wind could produce.)

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Schematic of fluid flow through a disk-shaped actuator. For a constant density fluid, cross-sectional area varies inversely with speed. Betz's law indicates the maximum power that can be extracted from the wind, independent of the design of a wind turbine in open flow. It was published in 1919 by the

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German physicist Albert Betz.

**Betz's law - Wikipedia**

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Aerodynamics of Wind Turbines, WIND  
ENERGY EXPLAINED Theory, Design and  
Application, 2nd Edition, Manwell et al.,  
2009 Discuss your understanding of Betz  
Limit, tip speed ratio, thrust coefficient,

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torque coefficient, and power coefficient.  
Resketch Fig. 3.24.

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determined that a Rayleigh wind speed  
distribution gives a good fit to the wind  
data. (a) Based on a Rayleigh wind  
speed distribution, estimate the number

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of hours that the wind speed will be between 9.5 and 10.5m/s during the year. (b) Using a Rayleigh wind speed distribution, estimate the number of hours per year that the

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